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Larsson et al.

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(54) **ENHANCED DRIVABILITY FOR A HYBRID VEHICLE IN COLD CLIMATE**

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See application file for complete search history.

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(52) **U.S. Cl.**

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(2013.01); **F02D 41/068** (2013.01); **F02N**
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F02N 11/0837 (2013.01); **F02D 2200/0414**
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(57) **ABSTRACT**

A diesel fuel control system is provided for a hybrid electric vehicle. The system may include a control unit and an ambient air temperature sensor connected to the control unit. The control unit may be arranged to store information about a cold filter plugging point temperature of fuel. The system may include a connection from a velocity sensor of the vehicle to the control unit and a connection from a diesel temperature sensor. The control unit may be arranged to calculate the temperature of fuel in a fuel filter based on information from the temperature sensors and the velocity sensor, and may be arranged in connection with an engine control unit such that an internal combustion engine is arranged to start if the calculated temperature of the fuel is below the cold filter plugging point.

20 Claims, 1 Drawing Sheet

